

Group Members Mrs. Buhite

Group Problems 1

Section 1-5: Complementary and Supplementary Angles

The measure of the complement of an angle is 60 more than the measure of the angle. Find the measure of the angle.

$$\begin{array}{lll} x = 1^{\text{st}} \angle & 15^\circ & \\ x + 60 = 2^{\text{nd}} \angle & 75^\circ & 15 + 60 \end{array}$$

$$\begin{array}{r} x + x + 60 = 90 \\ 2x + 60 = 90 \\ \quad -60 \quad -60 \\ \hline 2x = 30 \\ \frac{2x}{2} = \frac{30}{2} \\ x = 15 \end{array}$$

Two angles are complementary and the measure of the smaller angle is 50 less than the measure of the larger angle. Find the measure of the larger angle.